

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A protein crystallizing device comprising:

a protein crystallizing microarray ~~having comprising~~ at least two crystallizing agent holding parts which hold a protein crystallizing agent, and a plate laminated on said protein crystallizing microarray, said plate ~~having comprising~~

crystallizing sections corresponding to said crystallizing agent holding parts so that the sections being capable of being filled with a protein-containing sample, and recessed parts provided between the crystallizing sections.

Claim 2 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, wherein said crystallizing agent holding parts ~~are made from comprise~~ gels prepared in respectively different protein crystallization conditions.

Claim 3 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, wherein said protein crystallizing microarray is a microarray having a plurality of hollow tubular bodies in an array.

Claim 4 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, further comprising a mechanism which presses said protein crystallizing microarray and said plate into contact with each other.

Claim 5 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, wherein a sealant is filled in said recessed parts.

Claim 6 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, wherein a capacity of said crystallizing section is less than 0.5 μ l.

Claim 7 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, wherein a capacity of said crystallizing section is 0.5 μ l or more.

Claim 8 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, wherein said protein crystallizing microarray has 10 to 1000 of crystallizing agent holding parts.

Claim 9 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, wherein said plate further ~~has~~comprises a crystal collection mechanism which collects precipitated crystals in said crystallizing sections.

Claim 10 (Currently Amended): ~~A~~The protein crystallizing device according to claim 1, further comprising a detection mechanism which monitors protein crystallization in said crystallizing sections.

Claim 11 (Currently Amended): A sample filling aid for filling a protein-containing sample into said crystallizing sections of the protein crystallizing device according to ~~any one of claims 1 through 10~~claim 1, comprising:

punched holes having an arrangement corresponding to said crystallizing sections, and a positioning mechanism which makes the punched holes correspond to said crystallizing sections on said plate.

Claim 12 (Currently Amended): ~~A~~The protein crystallizing device according to ~~any one of claim 1 through claim 10~~claim 1, wherein said plate is formed with the positioning part which matches a position with a sample filling aid ~~according to claim 11~~.

Claim 13 (Currently Amended): A screening method of protein crystallization conditions using the protein crystallizing device according to claim 12 and the sample filling aid ~~according to claim 11~~, comprising ~~the steps of~~:

placing the sample filling aid ~~according to claim 11~~ on said plate so that said punched holes in the sample filling aid correspond to said crystallizing sections;

adding the protein-containing sample to said punched holes from the top of the sample filling aid so that said crystallizing sections are filled therewith;

taking out said sample filling aid ; and

laminating said plate and said protein crystallizing microarray so that said crystallizing sections and said crystallizing agent holding parts are in contact by corresponding to each other.

Claim 14 (Currently Amended): A protein crystallizing gel ~~having comprising~~ sodium chloride held in a gel-like material comprising a ~~type of~~ monomer selected from a group consisting of acrylamide, 2-acrylamide-2-methylpropanesulfonic acid, and methacryldimethylaminoethylmethyl chloride salt.

Claim 15 (Currently Amended): A protein crystallizing gel ~~having comprising~~ 2-methyl-2,4-pentanediol held in a gel-like material ~~containing comprising~~ dimethylacrylamide.

Claim 16 (Currently Amended): A protein crystallizing agent ~~having~~ comprising sodium/potassium phosphate held in a gel-like material ~~containing~~ comprising 2-acrylamide-2-methylpropanesulfonic acid.

Claim 17 (Currently Amended): A protein crystallizing gel ~~having~~ comprising ammonium sulfate held in a gel-like material ~~containing~~ comprising methacryldimethylaminoethylmethyl chloride salt.

Claim 18 (Currently Amended): A protein crystallizing gel ~~having~~ comprising sodium malonate held in a gel-like material ~~containing~~ comprising acrylamide.

Claim 19 (Currently Amended): A protein crystallizing gel ~~having~~ comprising polyethylene glycol 6000 held in a gel-like material ~~containing~~ comprising polyoxyethylene monoacrylate.